

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 19968 - L2 Version 1
Chandra X-Ray Center

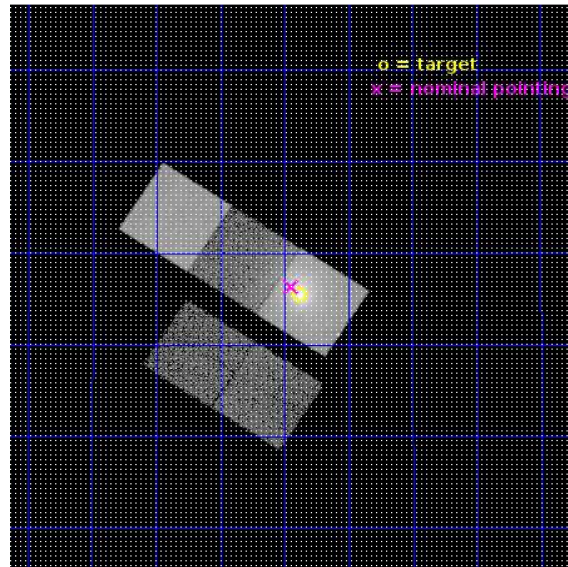
L2 Processing Date : Nov 19 2017

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1 Front

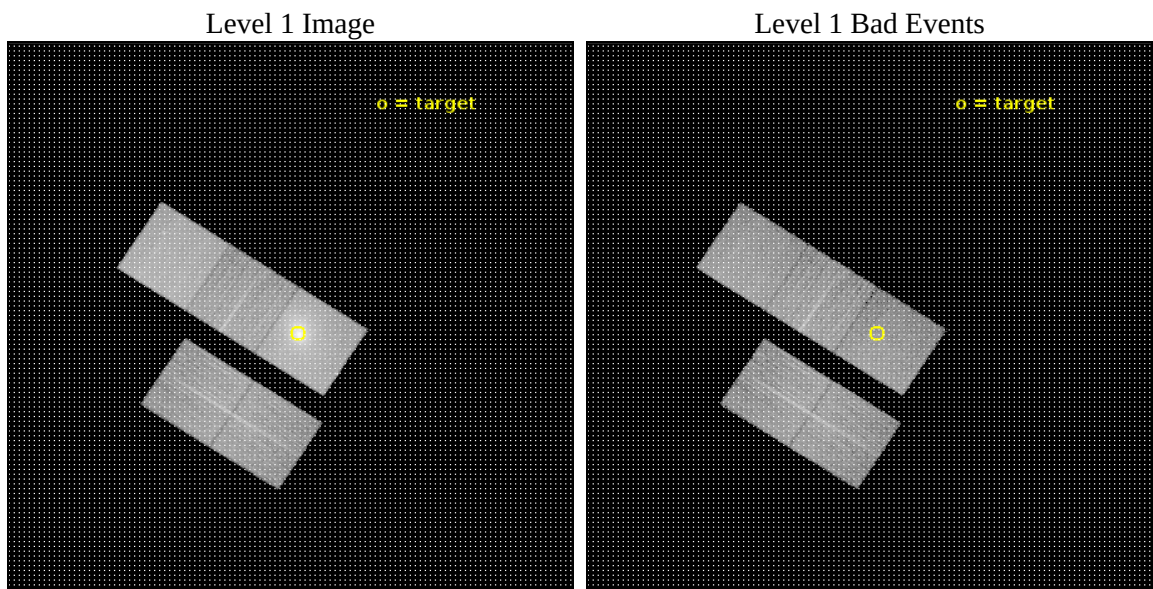
seq_num	890147	Sequence number
obs_id	19968	Observation id
title	AO-18 (Fall 2017) Calibration Observations of A1795	Proposal title
observer	CXC Calibration	Principal investigator
object	A1795	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	207.219583	Observer's specified target RA [deg]
dec_targ	26.590833	Observer's specified target Dec [deg]
ra_nom	207.23659295371	Nominal RA [deg]
dec_nom	26.60606987227	Nominal Dec [deg]
roll_nom	32.769176284079	Nominal Roll [deg]
revision	1	Processing version of data
ontime	15056.700115919	Sum of GTIs [s]
livetime	14859.973244323	Livetime [s]
ontime2	15053.559145689	Sum of GTIs [s]
ontime3	15056.700115919	Sum of GTIs [s]
ontime5	15056.700115919	Sum of GTIs [s]
ontime6	15056.700115919	Sum of GTIs [s]
ontime7	15056.700115919	Sum of GTIs [s]
l2events	283544	Number of level 2 events



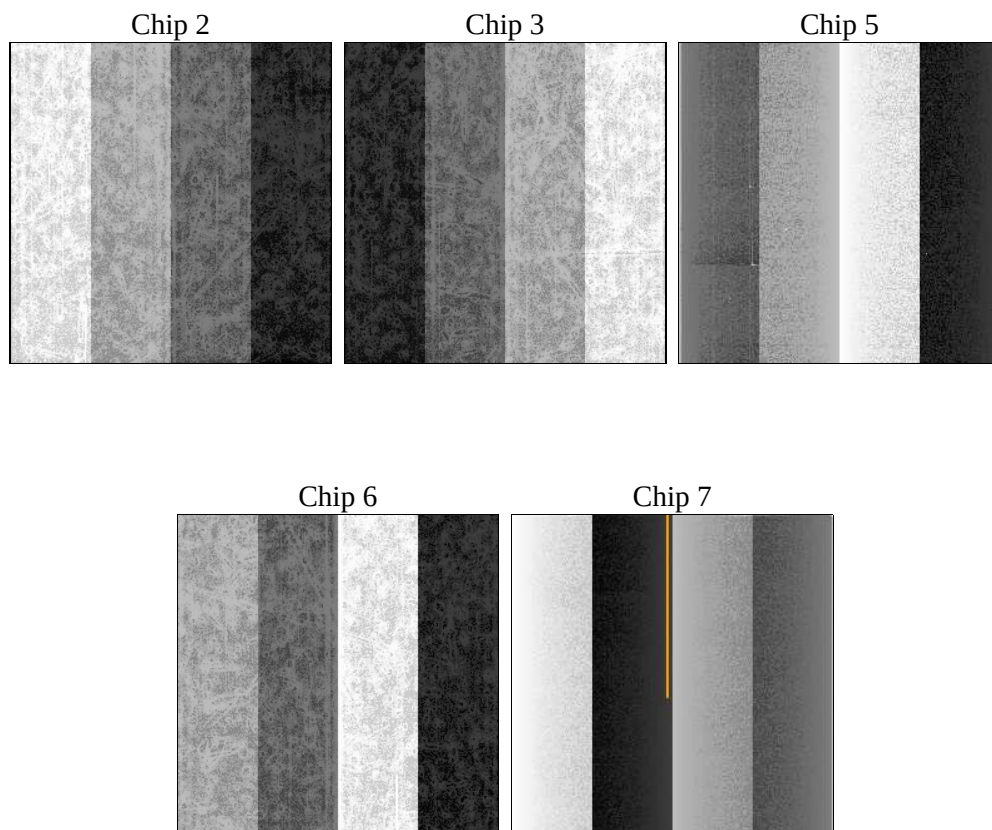
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	15000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	15056.700115919	Sum of GTIs [s]
caldsver	4.7.6	 	ontime2	15053.559145689	Sum of GTIs [s]
date	2017-11-19T15:04:29	Date and time of file creation	ontime3	15056.700115919	Sum of GTIs [s]
revision	1	Processing version of data	ontime5	15056.700115919	Sum of GTIs [s]
			ontime6	15056.700115919	Sum of GTIs [s]
			ontime7	15056.700115919	Sum of GTIs [s]
			l1events	744036	Number of level 1 events

2.1.4 Events

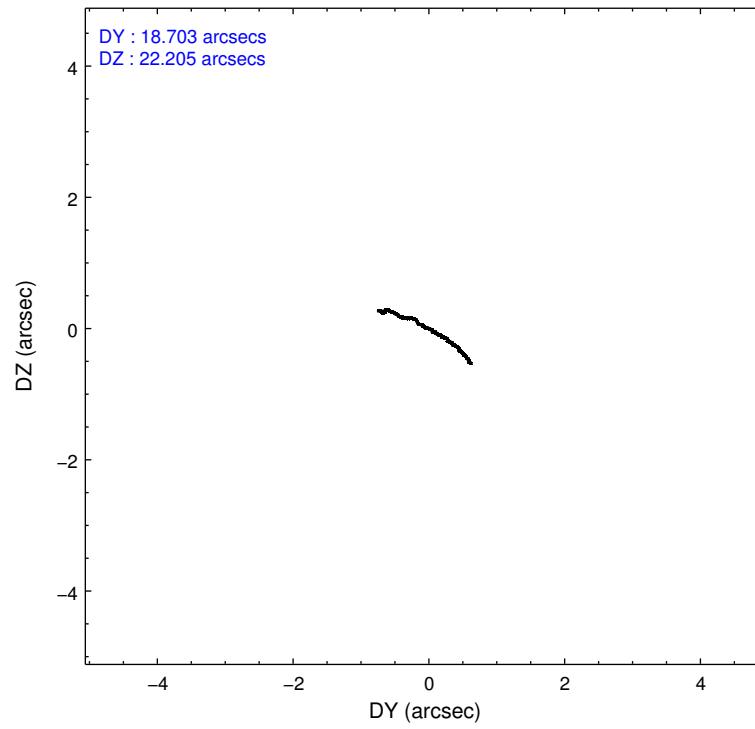
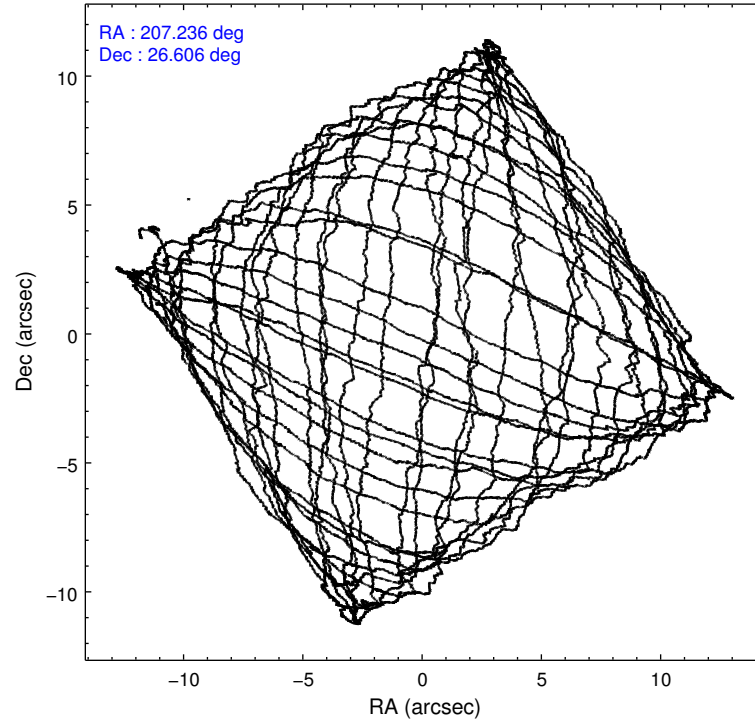
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
level 1 events	108348	103340	170001	116944	245403
rejected events	96261	90969	89146	96766	77823
rejected %	88%	88%	52%	82%	31%

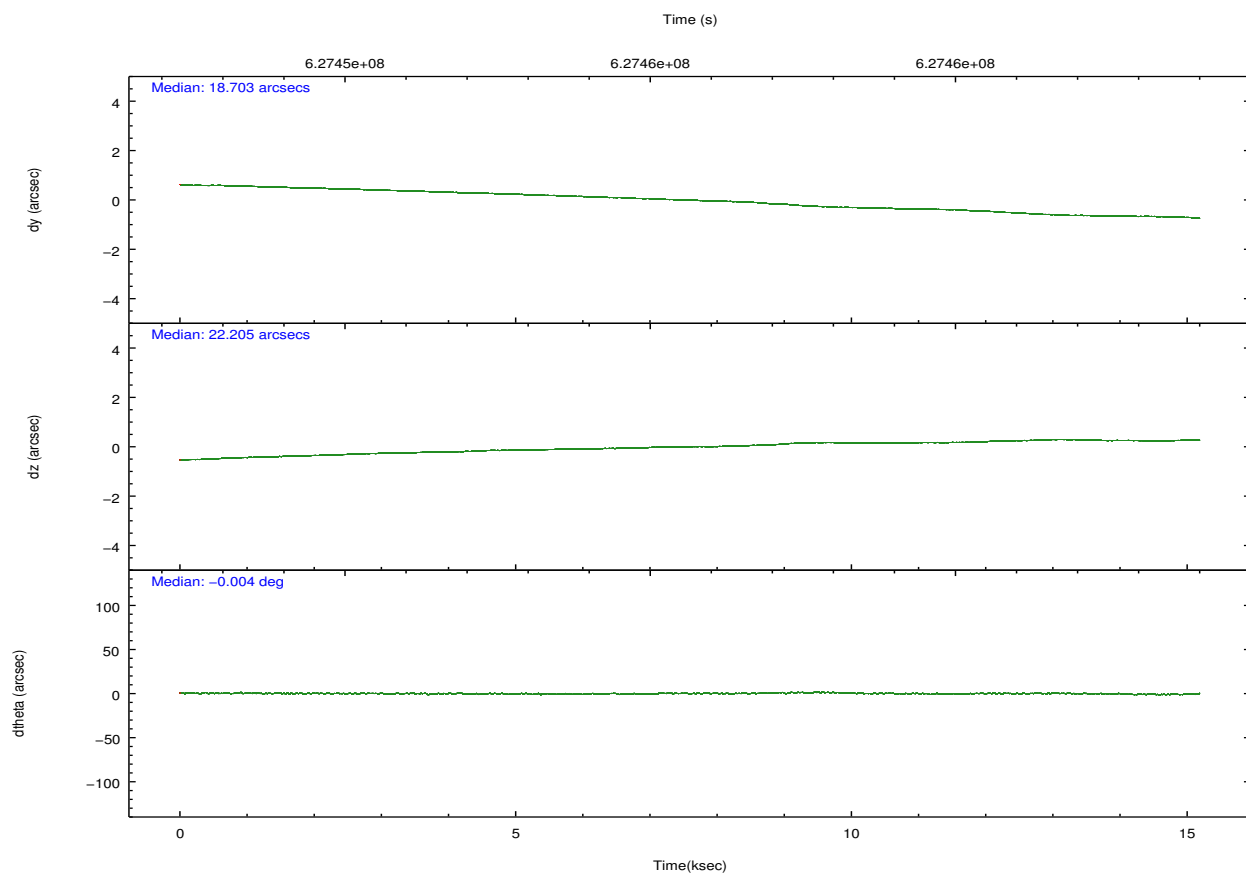
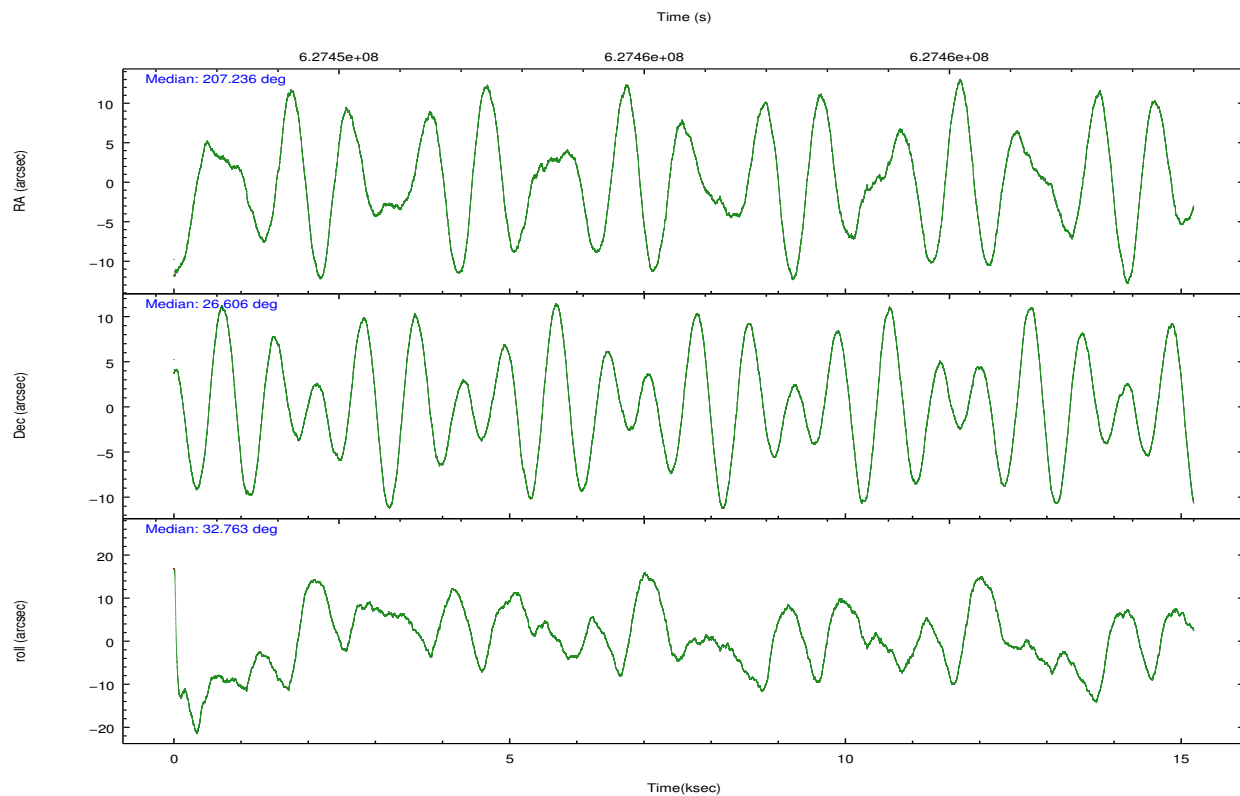
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7
grade 0 events	4346	5100	4811	10261	34816
	4%	4%	2%	8%	14%
grade 1 events	59	54	390	83	223
	0%	0%	0%	0%	0%
grade 2 events	3154	2512	25684	3782	41612
	2%	2%	15%	3%	16%
grade 3 events	1168	1158	2619	1522	17221
	1%	1%	1%	1%	7%
grade 4 events	1179	1240	2549	1493	16793
	1%	1%	1%	1%	6%
grade 5 events	4348	5135	12081	5137	14643
	4%	4%	7%	4%	5%
grade 6 events	2240	2363	45206	3124	57175
	2%	2%	26%	2%	23%
grade 7 events	91854	85778	76661	91542	62920
	84%	83%	45%	78%	25%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-23567	ACIS-23567	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	N	N
Observation mode	POINTING	POINTING	CCD I1 on	N	N
[deg] Pointing RA	207.222936	207.2365929537094	CCD I2 on	Y	Y
[deg] Pointing Dec	26.581502	26.60606987227048	CCD I3 on	O1	Y
[deg] Pointing Roll	32.618642	32.76917628407949	CCD S0 on	N	N
[s] Window start time (MET)	626832069.184000	626832069.184000	CCD S1 on	Y	Y
[s] Window stop time (MET)	629683269.184000	629683269.184000	CCD S2 on	Y	Y
[mm] SIM focus pos	-0.684267	-0.6828225247311905	CCD S3 on	Y	Y
[mm] SIM defocus	0	0.001444936568705701	CCD S4 on	N	N
[mm] SIM translation stage pos	-190.132523	-190.1400660498719	CCD S5 on	N	N
[mm] SIM translation stage offset	0	0.00754346686406393	Number of optional ACIS chips dropped	0	0
[s] Observation start time (MET)	627448231.184000	627447380.54693	On-chip summing requested	N	N
Observation start date	2017-11-19T03:09:22	2017-11-19T02:56:20	Subarray requested	NONE	NONE
[s] Observation end time (MET)	627463231.184000	627464166.97291	Alternating exposures requested	N	N
Observation end date	2017-11-19T07:19:22	2017-11-19T07:36:06	[s] Primary exposure time	0.000000	3.1
Read mode	TIMED	TIMED			

2.3 Aspect



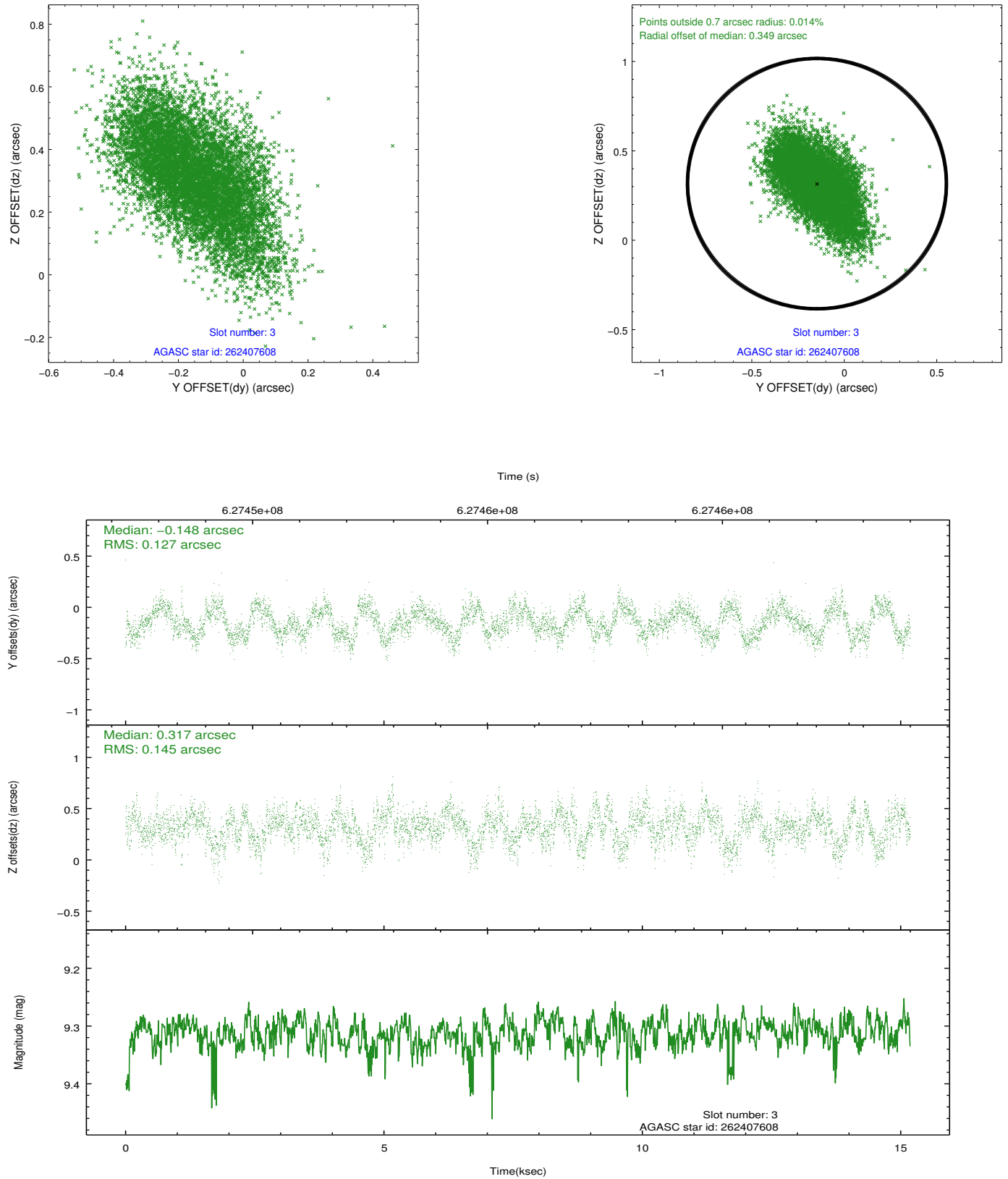


Slot Statistics

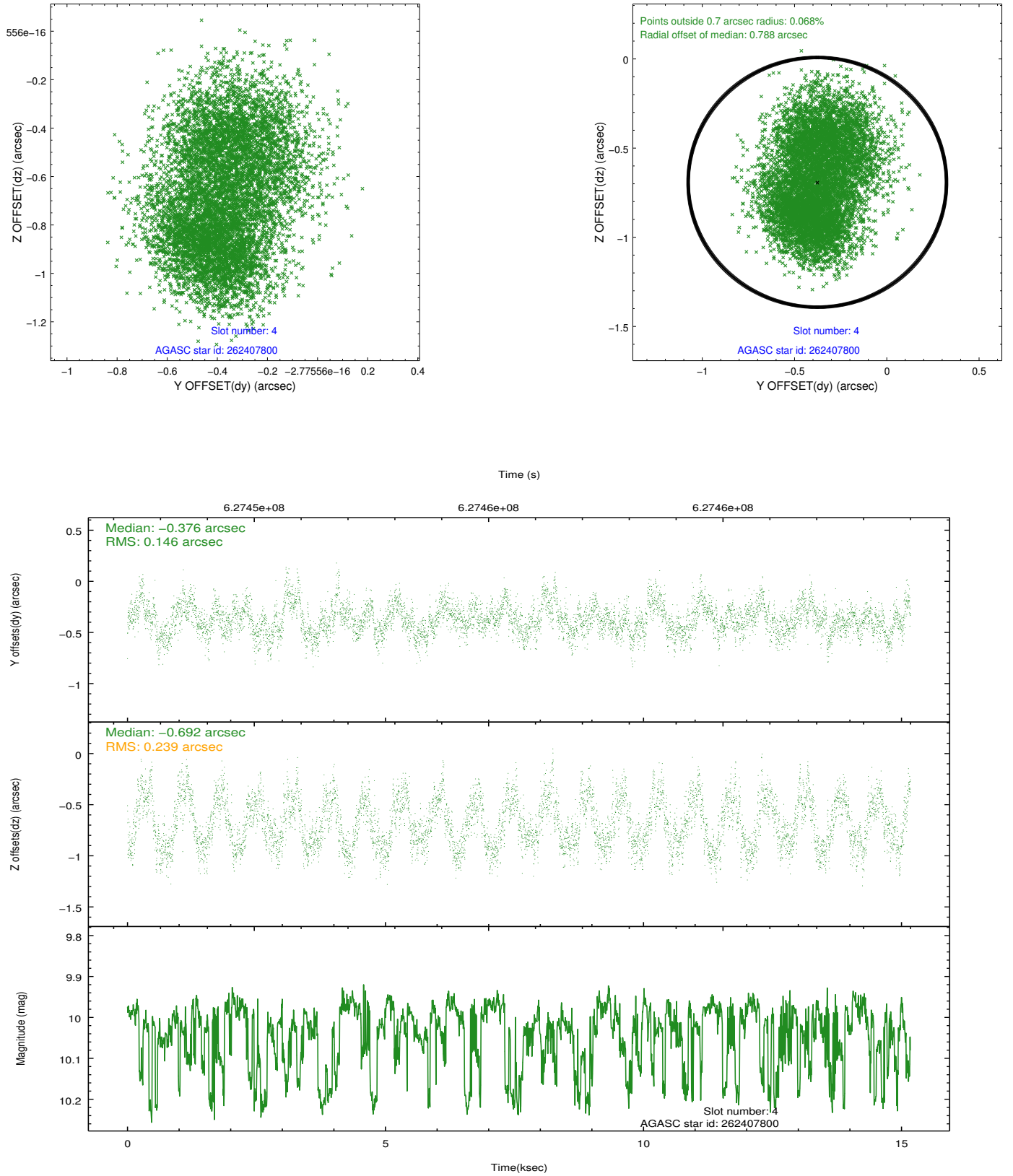
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-S-2	7.00	3705	-0.206	-0.135	0.021	0.029	0.000000	0.000000	-771.94	-1743.88
1	FID		ACIS-S-4	7.09	3704	0.491	0.137	0.028	0.040	0.000000	0.000000	2141.90	164.55
2	FID		ACIS-S-5	7.10	3705	-0.314	0.007	0.014	0.020	0.000000	0.000000	-1824.51	158.44
3	GUIDE	used	262407608	9.31	7405	-0.148	0.317	0.203	0.341	207.378401	26.435507	139.82	-712.47
4	GUIDE	used	262407800	10.03	7358	-0.376	-0.692	0.304	0.462	207.321181	27.251762	1562.71	1863.69
5	GUIDE	used	262408096	9.30	7390	0.260	-0.212	0.194	0.310	207.011678	26.515421	-700.27	167.45
6	GUIDE	used	262408936	9.61	7395	-0.180	-0.131	0.207	0.351	207.154731	26.726554	97.41	557.62
7	GUIDE	used	262411960	9.61	7398	0.437	0.705	0.223	0.367	207.327895	25.881727	-1070.12	-2304.34

2.4 Star Slots

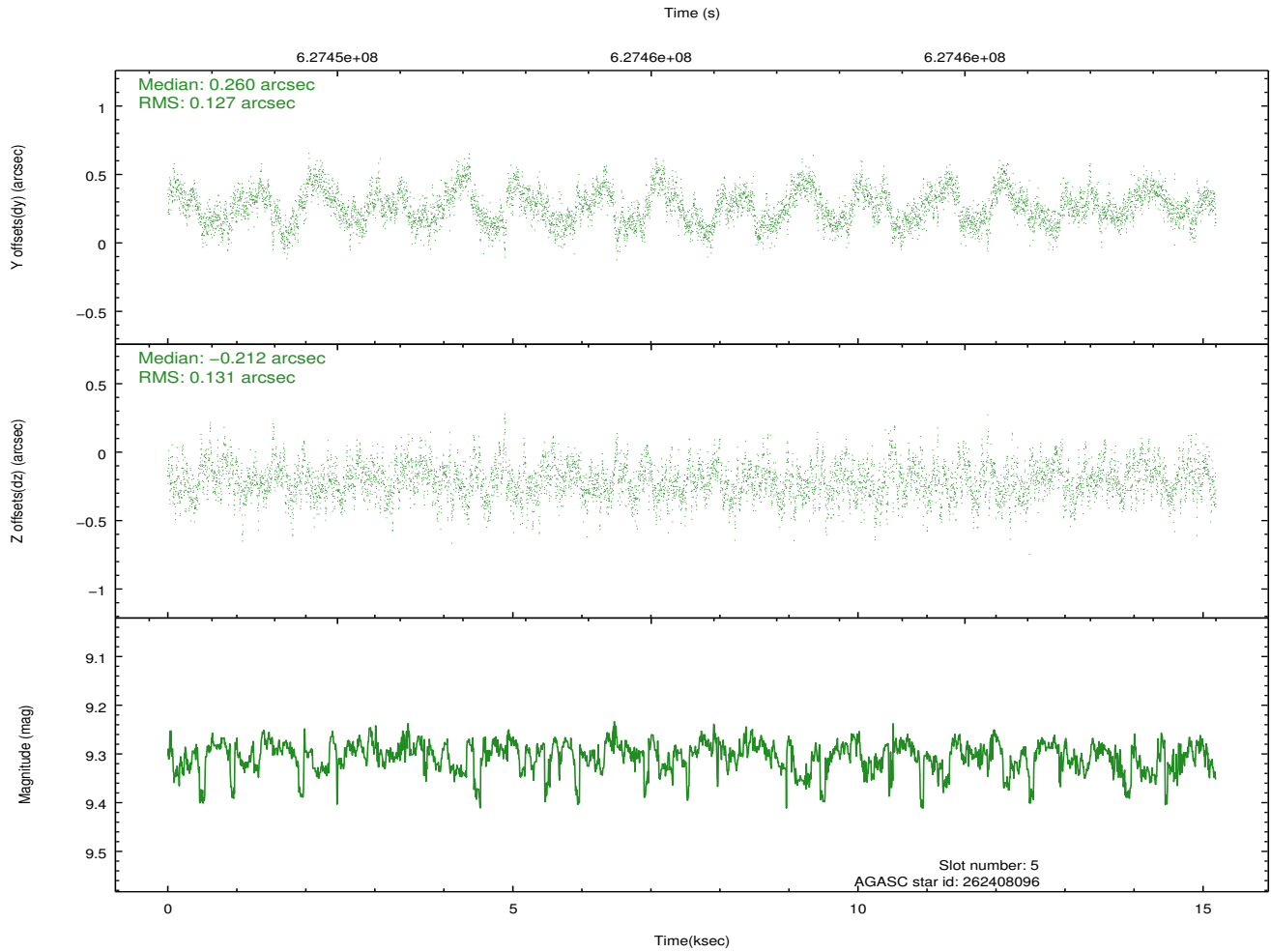
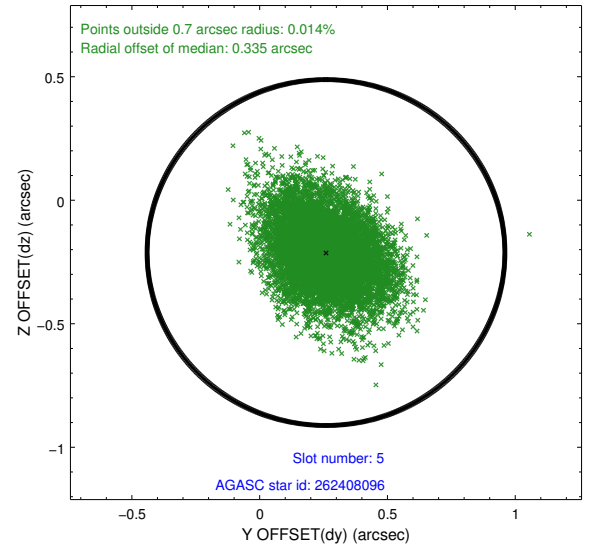
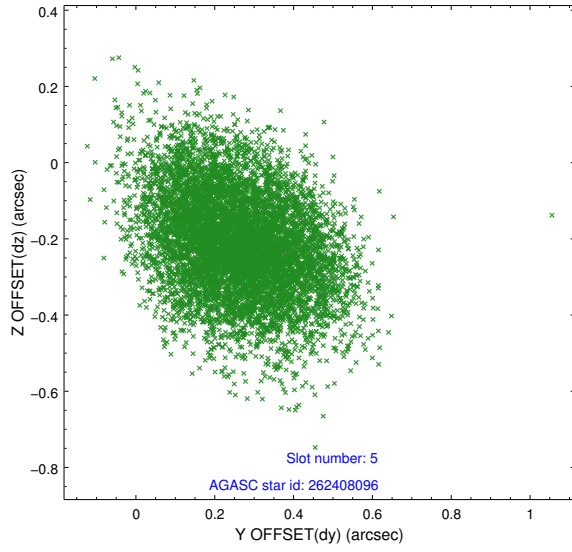
2.4.1 Slot 3



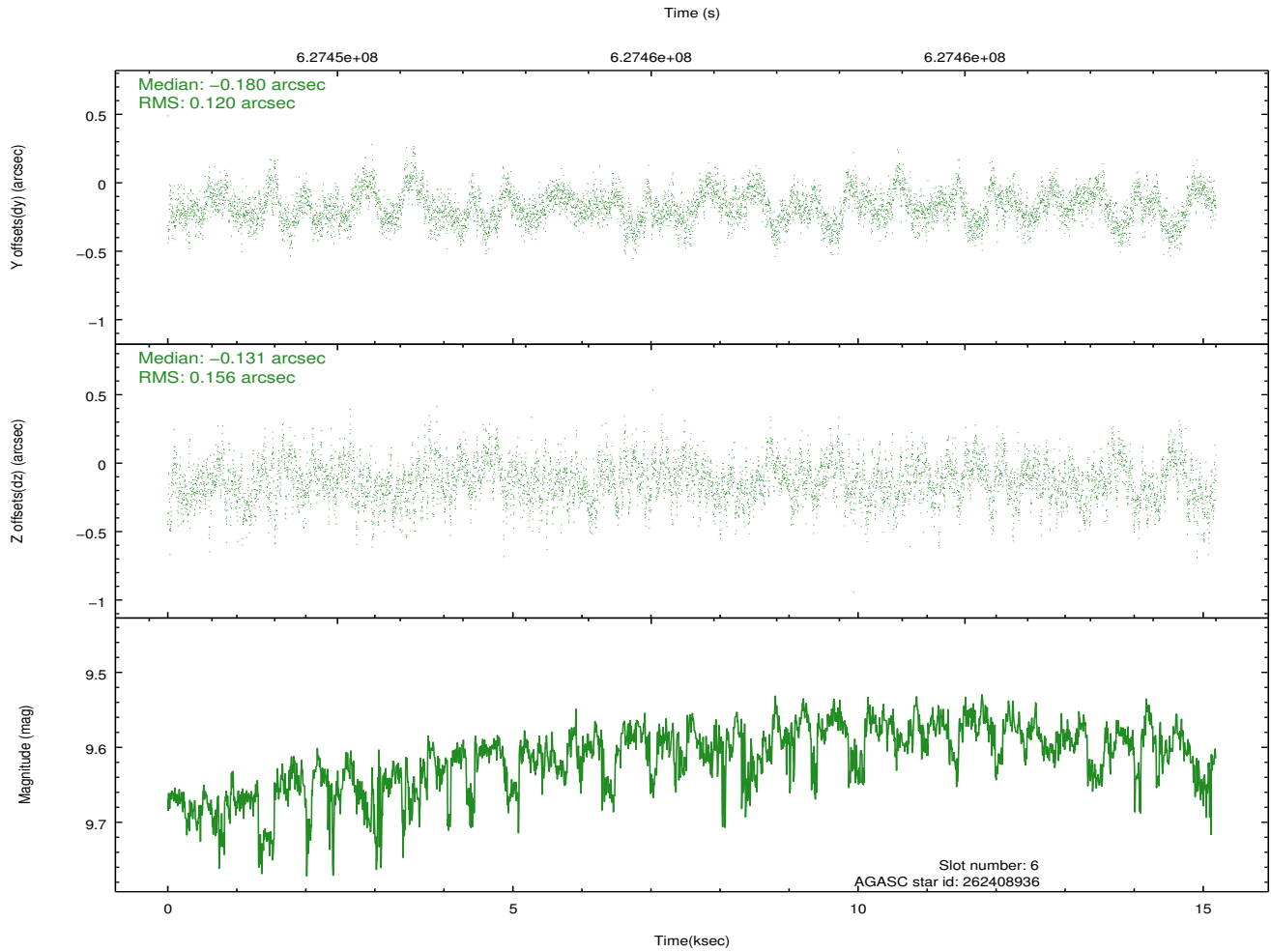
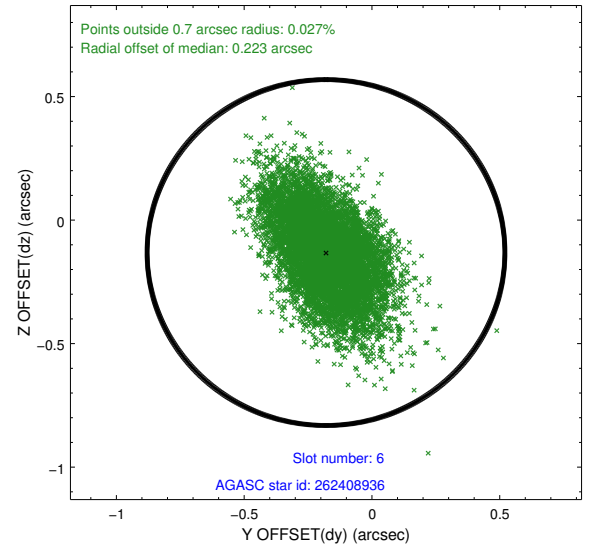
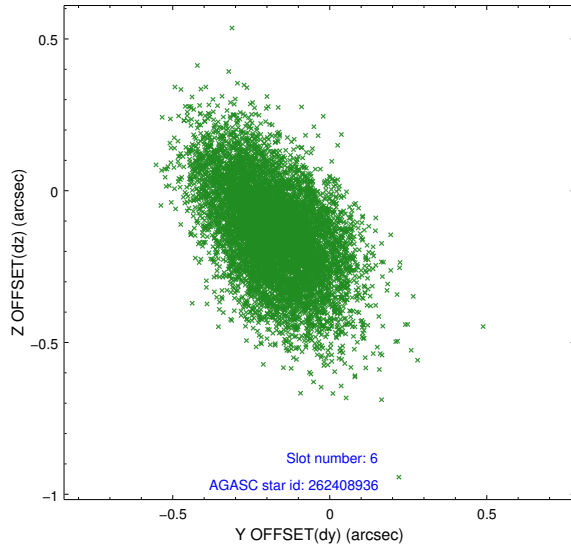
2.4.2 Slot 4



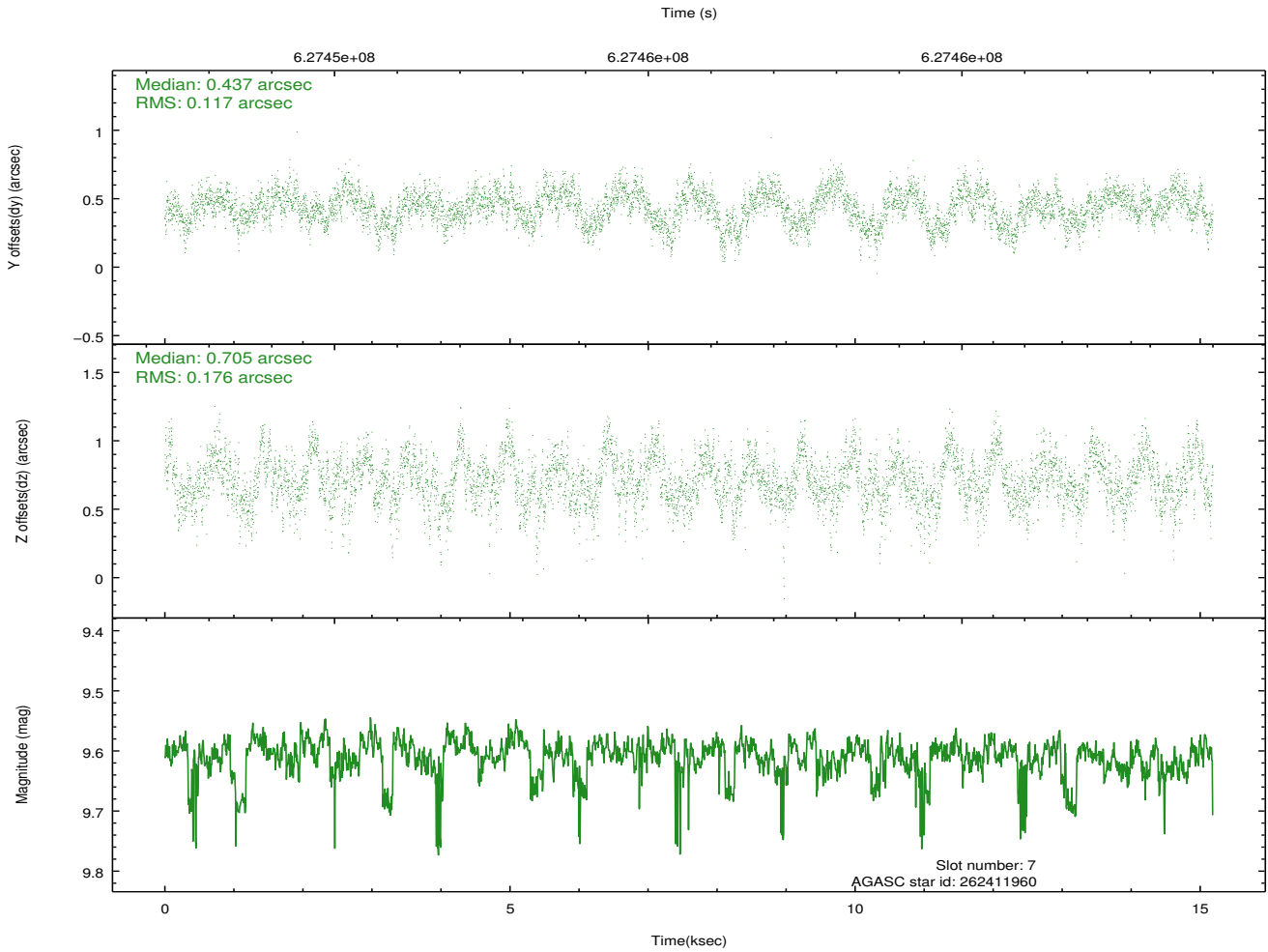
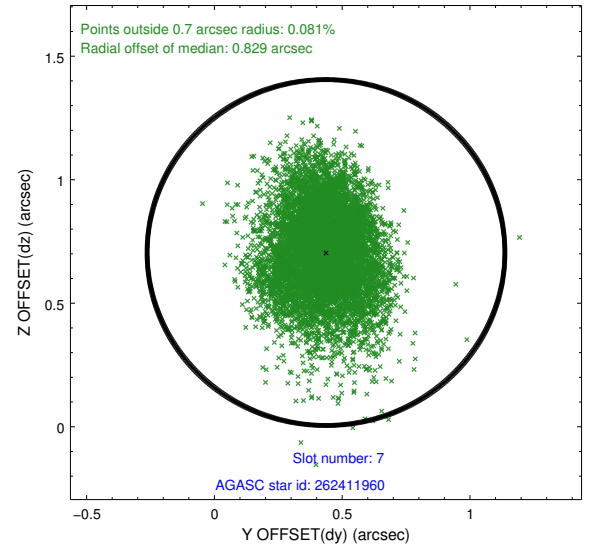
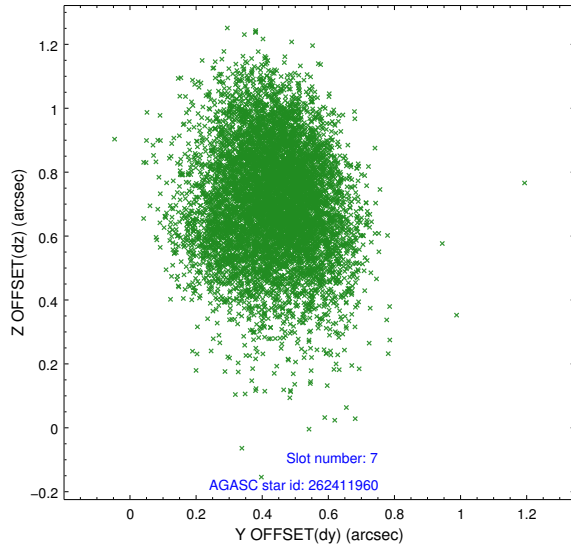
2.4.3 Slot 5



2.4.4 Slot 6

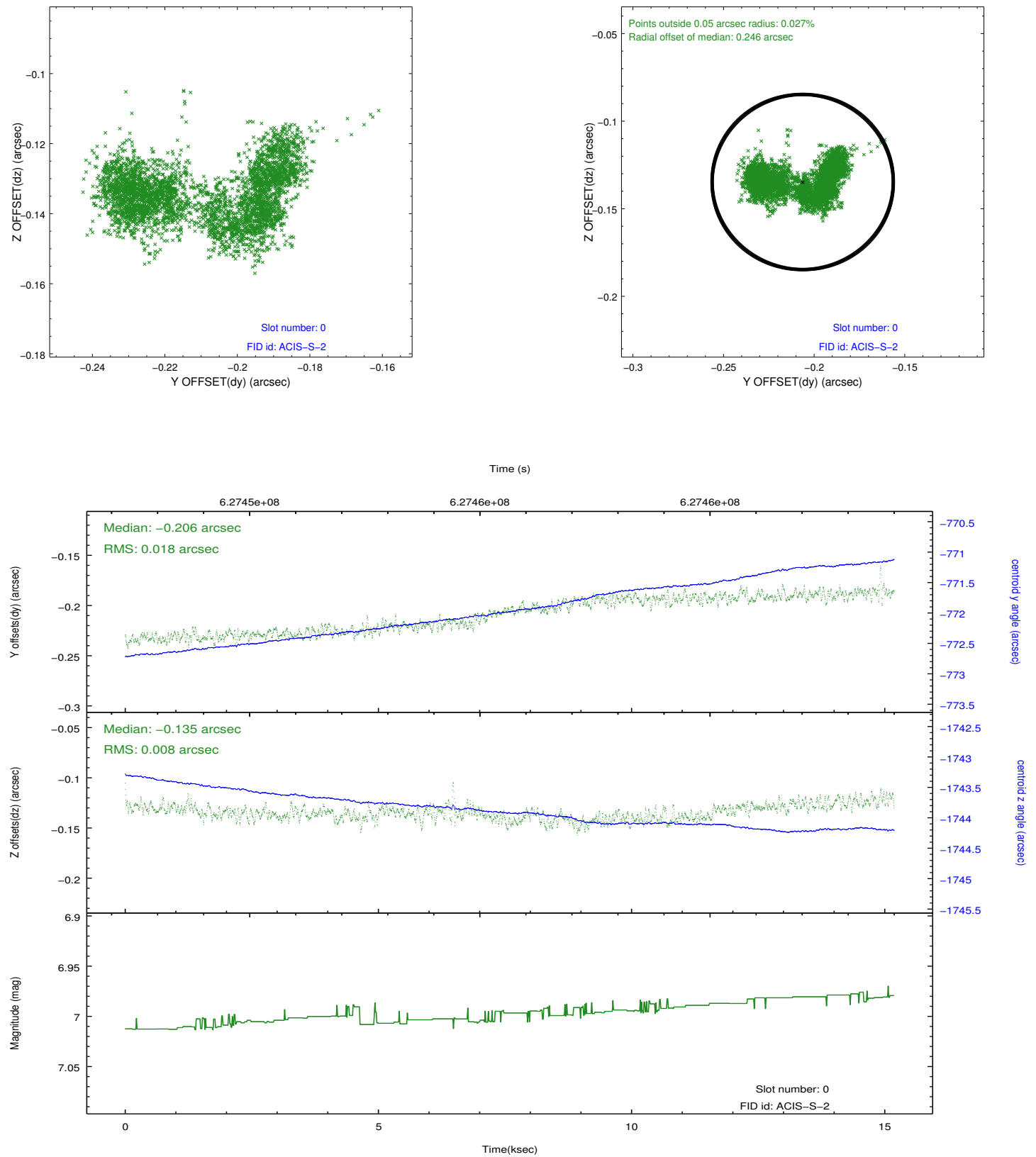


2.4.5 Slot 7

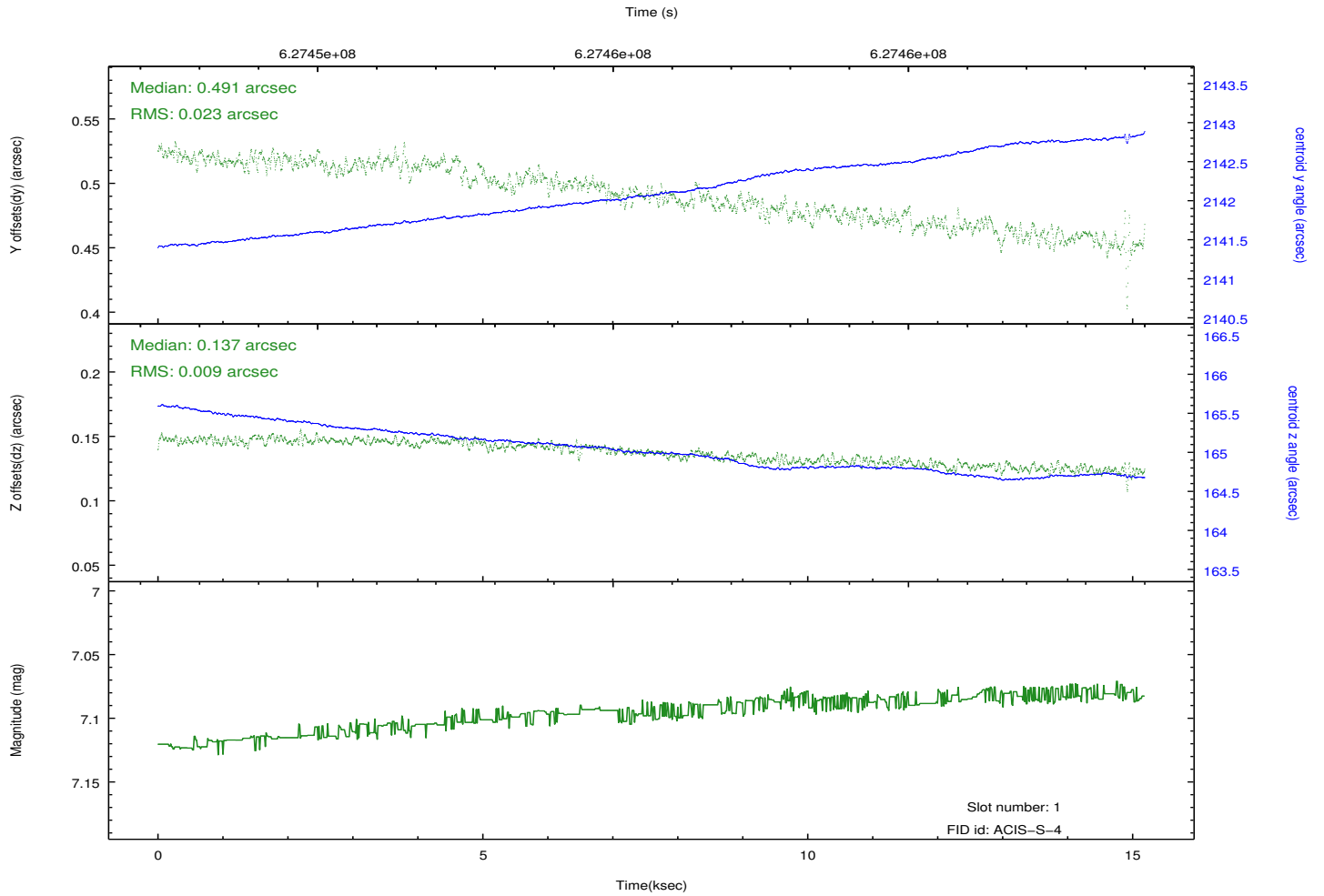
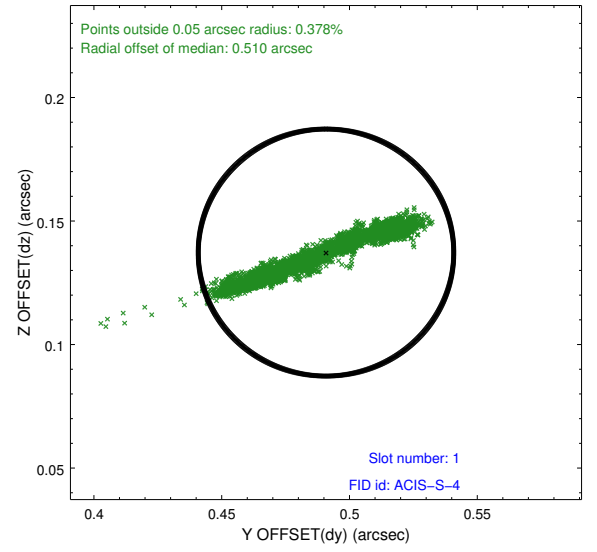
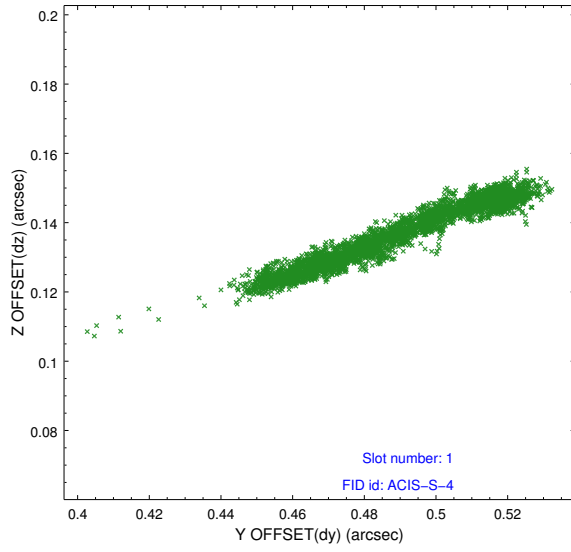


2.5 FID Slots

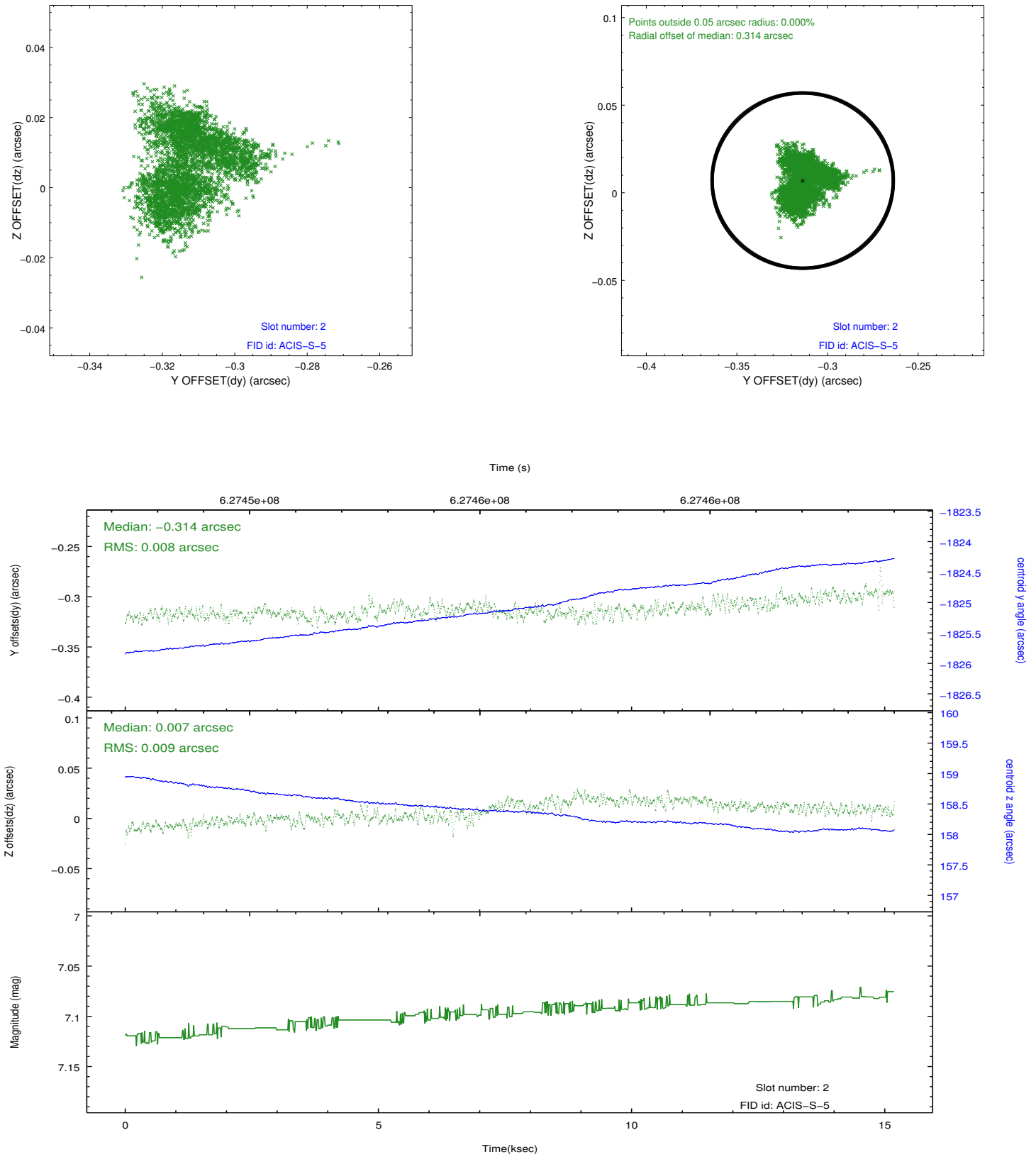
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2017.11.19
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	15.056700115919

A.2 Comments

Window preference met.